

WHAT IS CLAIMED IS:

1. An electrical connector comprising:

an elongate body having a first end, a second end, and a center section, the body being electrically conductive between the first end and the second end, each of the first end and the second end including an open socket and a contact;  
at least one gimbal formed on the exterior of the center section.

2. An electrical connector in accordance with Claim 1, wherein each of the first end and the second end includes at least two contacts.

3. An electrical connector in accordance with Claim 1, wherein each of the first end and the second end includes four contacts surrounding the open socket.

4. An electrical connector in accordance with Claim 1, wherein the at least one gimbal comprises four gimbals.

5. An electrical connector in accordance with Claim 4, wherein the body center section comprises four sides.

6. An electrical connector in accordance with Claim 5, wherein each of the four gimbals is formed on the exterior of each of the center section four sides.

7. An electrical connector in accordance with Claim 1, wherein the body is hollow.

8. An electrical connector in accordance with Claim 1, further comprising:

at least four beams, two of the at least four beams extending between the center section and the first end, and two of the at least four beams extending between the center section and the second end.

9. An electrical connector in accordance with Claim 8, wherein at least one of the four beams extends inwardly.

10. An electrical connector in accordance with Claim 8, wherein at least one of the four beams arcs inwardly.

11. An electrical connector in accordance with Claim 8, wherein the at least four beams comprises eight beams, four of the at least eight beams extending between the center section and the first end, and four of the at least eight beams extending between the center section and the second end.

12. An electrical connector in accordance with Claim 1, wherein the at least one gimbal is integral with the center section.

13. An electrical connector in accordance with Claim 1, wherein the at least one gimbal is mounted to the exterior of the center section.

14. A module comprising:

a receiver module front having a body and a plurality of bores extending therethrough;

a receiver module back having a body and a plurality of bores extending therethrough;

the receiver module front and the receiver module back having mating snap fittings; and

an electrical connector in accordance with Claim 1 positioned partially in one of the plurality of bores in the receiver module front, and positioned partially in one of the plurality of bores in the receiver module back.

15. A module comprising:

a receiver module front having a body and a plurality of bores extending therethrough;

a receiver module back having a body and a plurality of bores extending therethrough; and

the receiver module front and the receiver module configured and arranged to mate together.

16. A module in accordance with Claim 15, wherein each of the plurality of bores has an interior surface, and further comprising:

at least one gimbal on at least one interior surface of at least one of the plurality of bores.

17. A module in accordance with Claim 16, further comprising:

an electrical connector positioned in the at least one of the plurality of bores, the electrical connector having an exterior surface, the at least one gimbal bearing on the connector exterior surface.

18. A module in accordance with Claim 16, wherein the at least one gimbal comprises four gimbals.

19. A module in accordance with Claim 18, further comprising:

an electrical connector positioned in the at least one of the plurality of bores, the electrical connector having an exterior surface, the four gimbals bearing on the connector exterior surface.

20. A module in accordance with Claim 15, wherein the receiver module front further comprises a pair of extensions spaced apart a distance so that the receiver module back can be inserted therebetween.

21. The module in accordance with Claim 15, further comprising:

an ITA module having a body and a plurality of bores therethrough and at least one crimp pin positioned in one of the plurality of ITA module bores.

22. A module in accordance with Claim 15, further comprising:

gimbal means in at least one of the plurality of bores for self-aligning an electrical connector when positioned in the at least one of the plurality of bores.

23. An electrical connector comprising:

an elongate body having a first end, a second end, and a center section, the body being electrically conductive between the first end and the second end, each of the first end and the second end including an open socket and a contact;

gimbal means for self-aligning at least one of the open sockets.

24. An interface for electrically connecting a at least one test device and a unit under test comprising:

an interface test adapter module comprising a front side and a back side, and a plurality of bores extending therethrough, a plurality of contacts disposed in the

bores, each contact comprising an open end along the front side for receiving a first male-pinned connector and a male pinned end extending from the back side;

an electrical connector comprising a front side comprising a plurality of male-pinned connectors and a back side electrically connected to the at least one test device; and

a receiver module comprising a front side and a back side, and a plurality of bores extending from the front side to the back side, and a plurality of dual female contacts comprising a first opening at the front side and a second opening at the back side, the dual female contacts disposed in said bores;

wherein the male-pinned end of the interface test adapter module mates within the first opening of the contact at the front side of the receiver module, and the plurality of male-pinned connectors of the electrical connector mate within the second opening of the contacts at the back side of the receiver module.

25. The interface of claim 24, wherein each of the plurality of dual female contacts further comprises at least one gimbal.

26. The interface of claim 24, wherein the electrical connector is selected from the group consisting of: a pin header, a right angle connector, and a wire pin.

27. The interface of claim 26, wherein the electrical connector is a pin header and the interface further comprises a ribbon cable mounted on the pin header.

28. The interface of claim 26, wherein the electrical connector is a right angle connector, a printed circuit board, and a ribbon cable.